

**Bax (Apoptosis Marker) Antibody - With BSA and Azide**  
**Mouse Monoclonal Antibody [Clone SPM336 ]**  
**Catalog # AH10705**

## Specification

## Bax (Apoptosis Marker) Antibody - With BSA and Azide - Product Information

|                   |                                              |
|-------------------|----------------------------------------------|
| Application       | WB, IHC-P, IF, FC                            |
| Primary Accession | <a href="#">Q07812</a>                       |
| Other Accession   | <a href="#">581</a> , <a href="#">624291</a> |
| Reactivity        | Human, Monkey                                |
| Host              | Mouse                                        |
| Clonality         | Monoclonal                                   |
| Isotype           | Mouse / IgG1                                 |
| Calculated MW     | 21kDa KDa                                    |

### Bax (Apoptosis Marker) Antibody - With BSA and Azide - Additional Information

**Gene ID 581**

## Other Names

Apoptosis regulator BAX, Bcl-2-like protein 4, Bcl2-L-4, BAX, BCL2L4

## Application Note

WB~1:1000  
IHC-P~N/A  
IF~1:50~200  
FC~1:10~50

## Format

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

## Storage

Store at 2 to 8°C. Antibody is stable for 24 months.

## Precautions

Bax (Apoptosis Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

### Bax (Apoptosis Marker) Antibody - With BSA and Azide - Protein Information

Name BAX

### Synonyms BCL2L4

## Function

Plays a role in the mitochondrial apoptotic process (PubMed:<a href="http://www.uniprot.org/citations/10772918" target="\_blank">10772918</a>, PubMed:<a href="http://www.uniprot.org/citations/11060313" target="\_blank">11060313</a>, PubMed:<a href="http://www.uniprot.org/citations/11060313" target="\_blank">11060313</a>).

[16113678](http://www.uniprot.org/citations/16113678), PubMed: [16199525](http://www.uniprot.org/citations/16199525), PubMed: [18948948](http://www.uniprot.org/citations/18948948), PubMed: [21199865](http://www.uniprot.org/citations/21199865), PubMed: [21458670](http://www.uniprot.org/citations/21458670), PubMed: [25609812](http://www.uniprot.org/citations/25609812), PubMed: [36361894](http://www.uniprot.org/citations/36361894), PubMed: [8358790](http://www.uniprot.org/citations/8358790), PubMed: [8521816](http://www.uniprot.org/citations/8521816)). Under normal conditions, BAX is largely cytosolic via constant retrotranslocation from mitochondria to the cytosol mediated by BCL2L1/Bcl-xL, which avoids accumulation of toxic BAX levels at the mitochondrial outer membrane (MOM) (PubMed: [21458670](http://www.uniprot.org/citations/21458670)). Under stress conditions, undergoes a conformation change that causes translocation to the mitochondrion membrane, leading to the release of cytochrome c that then triggers apoptosis (PubMed: [10772918](http://www.uniprot.org/citations/10772918), PubMed: [11060313](http://www.uniprot.org/citations/11060313), PubMed: [16113678](http://www.uniprot.org/citations/16113678), PubMed: [16199525](http://www.uniprot.org/citations/16199525), PubMed: [18948948](http://www.uniprot.org/citations/18948948), PubMed: [21199865](http://www.uniprot.org/citations/21199865), PubMed: [21458670](http://www.uniprot.org/citations/21458670), PubMed: [25609812](http://www.uniprot.org/citations/25609812), PubMed: [8358790](http://www.uniprot.org/citations/8358790), PubMed: [8521816](http://www.uniprot.org/citations/8521816)). Promotes activation of CASP3, and thereby apoptosis (PubMed: [10772918](http://www.uniprot.org/citations/10772918), PubMed: [11060313](http://www.uniprot.org/citations/11060313), PubMed: [16113678](http://www.uniprot.org/citations/16113678), PubMed: [16199525](http://www.uniprot.org/citations/16199525), PubMed: [18948948](http://www.uniprot.org/citations/18948948), PubMed: [21199865](http://www.uniprot.org/citations/21199865), PubMed: [21458670](http://www.uniprot.org/citations/21458670), PubMed: [25609812](http://www.uniprot.org/citations/25609812), PubMed: [8358790](http://www.uniprot.org/citations/8358790), PubMed: [8521816](http://www.uniprot.org/citations/8521816)).

### Cellular Location

**[Isoform Alpha]:** Mitochondrion outer membrane; Single-pass membrane protein. Cytoplasm. Nucleus Note=Colocalizes with 14-3-3 proteins in the cytoplasm. Under stress conditions, undergoes a conformation change that causes release from JNK-phosphorylated 14-3-3 proteins and translocation to the mitochondrion membrane. Upon Sendai virus infection, recruited to the mitochondrion through interaction with IRF3 (PubMed:25609812) **[Isoform Gamma]:** Cytoplasm.

### Tissue Location

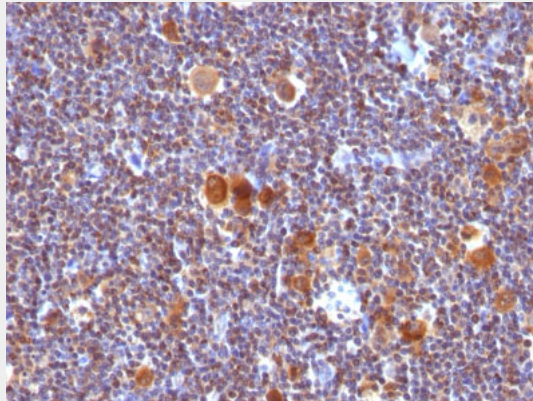
Expressed in a wide variety of tissues. Isoform Psi is found in glial tumors. Isoform Alpha is expressed in spleen, breast, ovary, testis, colon and brain, and at low levels in skin and lung. Isoform Sigma is expressed in spleen, breast, ovary, testis, lung, colon, brain and at low levels in skin. Isoform Alpha and isoform Sigma are expressed in pro-myelocytic leukemia, histiocytic lymphoma, Burkitt's lymphoma, T-cell lymphoma, lymphoblastic leukemia, breast adenocarcinoma, ovary adenocarcinoma, prostate carcinoma, prostate adenocarcinoma, lung carcinoma, epidermoid carcinoma, small cell lung carcinoma and colon adenocarcinoma cell lines

### Bax (Apoptosis Marker) Antibody - With BSA and Azide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **Bax (Apoptosis Marker) Antibody - With BSA and Azide - Images**



Formalin-fixed, paraffin-embedded human Hodgkin's Lymphoma stained with Bax Monoclonal Antibody (Clone SPM336).

#### **Bax (Apoptosis Marker) Antibody - With BSA and Azide - Background**

Recognizes a protein of 21kDa, identified as the Bax protein. This MAb is highly specific to Bax and shows no cross-reaction with Bcl-2 or Bcl-X protein. Bcl-2 blocks cell death following a variety of stimuli. Bax has extensive amino acid homology with Bcl-2 and it homodimerizes and forms heterodimers with Bcl-2. Overexpression of Bax accelerates apoptotic death induced by cytokine deprivation in an IL-3 dependent cell line, and Bax also counters the death repressor activity of Bcl-2.

#### **Bax (Apoptosis Marker) Antibody - With BSA and Azide - References**

Hsu YT, et. al. Journal of Biological Chemistry, 1997, 272(21):13829-34. | Hsu YT, et. al. PNAS, 1997, 94(8):3668-72. | Wolter KG, et. al. Journal of Cell Biology, 1997, 139(5):1281-92